

Fig. 1

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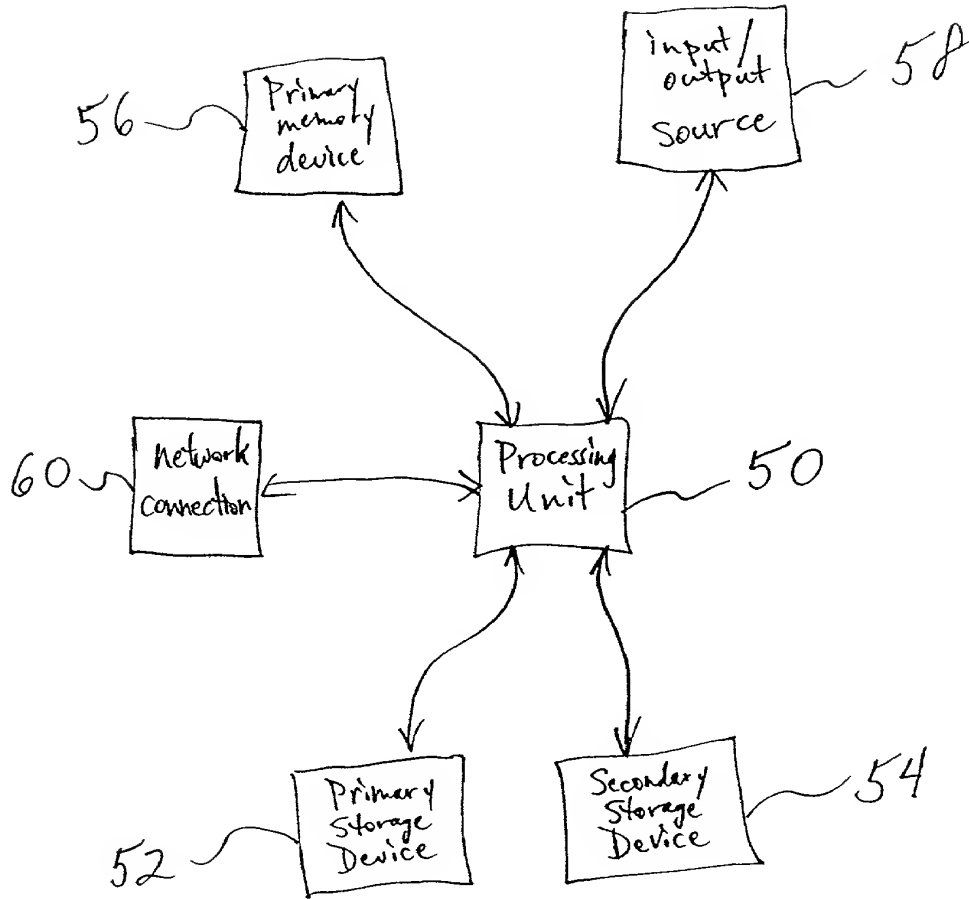


Fig. 2

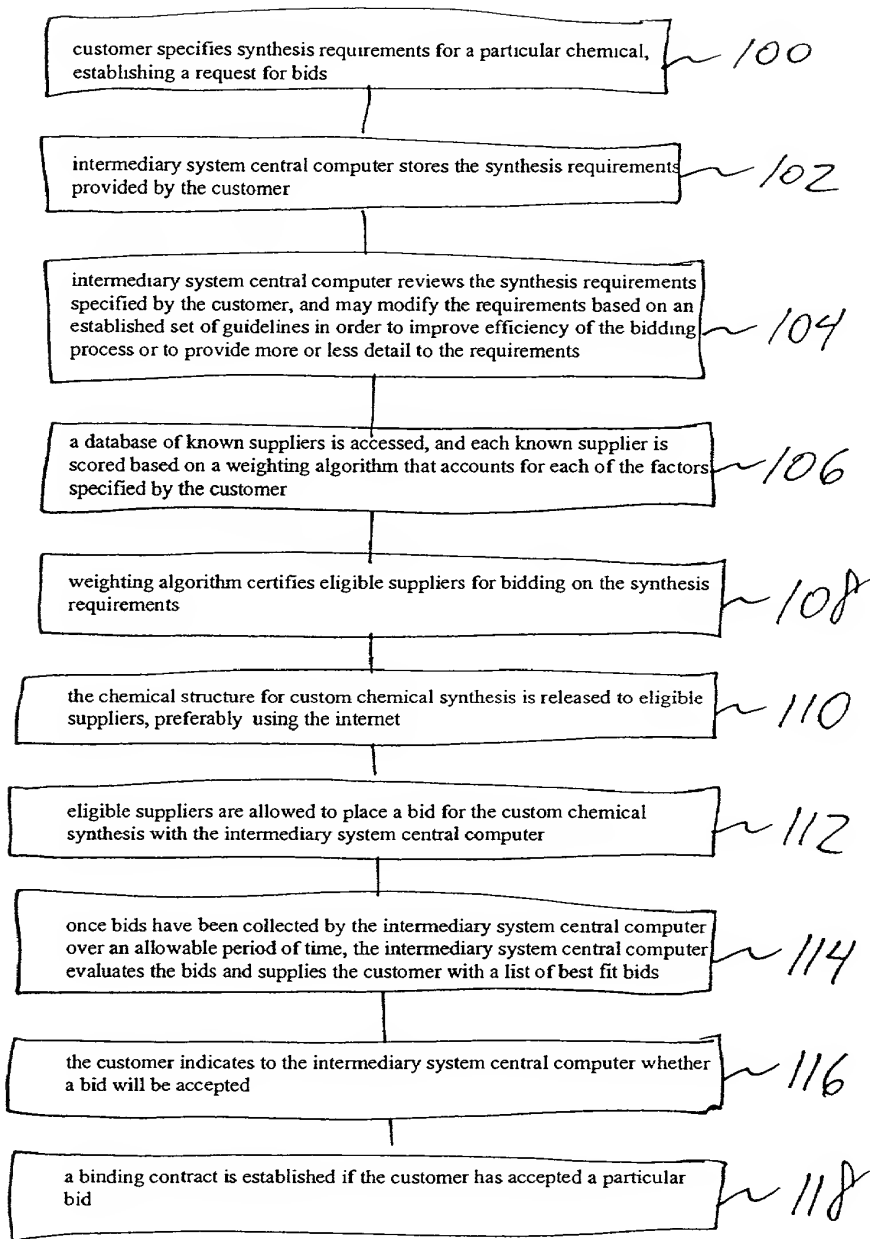


Fig. 3

the customer queries a chemical reaction database to obtain potential experimental multi-step strategies for synthesizing a compound

the customer specifies to the intermediary system central computer any of the desired chemical precursors or targets, including any preferred strategies for making the compounds

the customer specifies a set of additional synthesis requirements for a particular chemical as previously described, completing a request for bids

the intermediary system central computer stores the synthesis requirements provided by the customer, including any preferred synthesis strategies, and if multiple chemicals must be synthesized, the synthetic strategies for making a precursor may be provided with those of the desired target

the intermediary system central computer reviews the synthesis requirements specified by the customer, and may modify the requirements based on an established set of guidelines in order to improve efficiency of the bidding process or to provide more or less detail to the requirements

a database of known suppliers is accessed, and each known supplier is scored based on a weighting algorithm that accounts for each of the factors specified by the customer

weighting algorithm certifies eligible suppliers for bidding on the synthesis requirements

the chemical structure and synthesis strategies for custom chemical synthesis are released to eligible suppliers, preferably using the internet

eligible suppliers are allowed to place a bid for the custom chemical synthesis with the intermediary system central computer

once bids have been collected by the intermediary system central computer over an allowable period of time, the intermediary system central computer evaluates the bids and supplies the customer with a list of best fit bids

the customer indicates to the intermediary system central computer whether a bid will be accepted

a binding contract is established if the customer has accepted a particular bid

Fig. 4

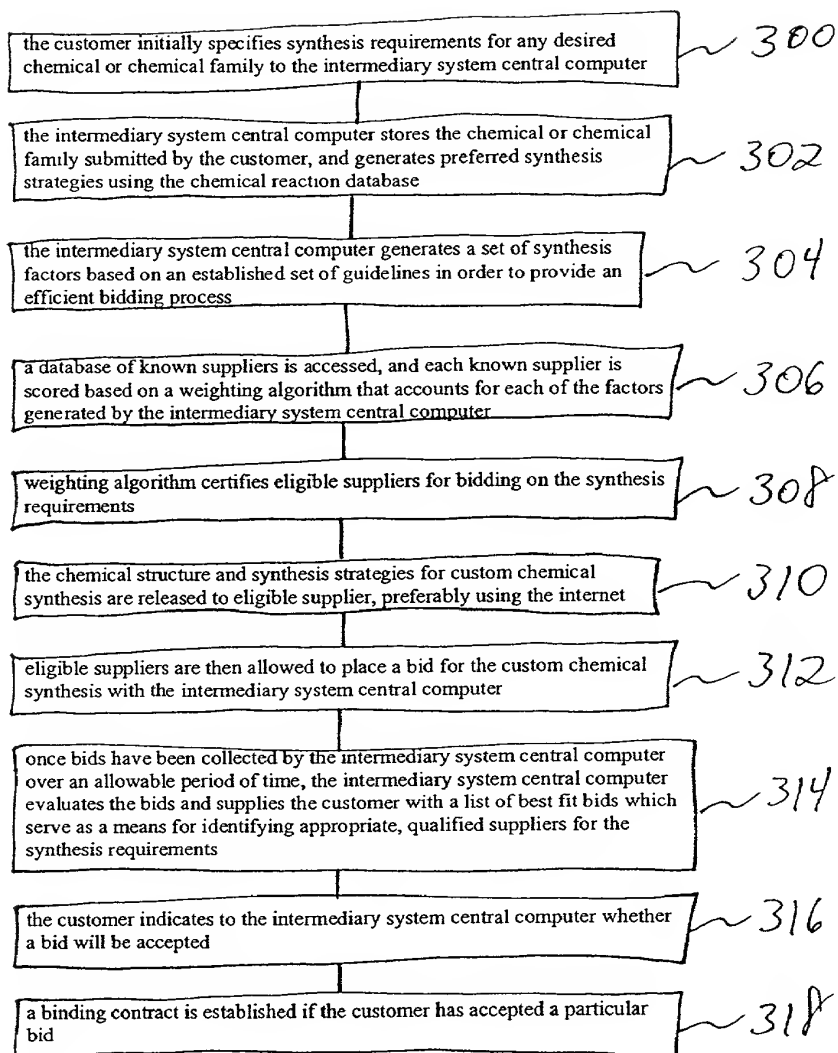


Fig. 5

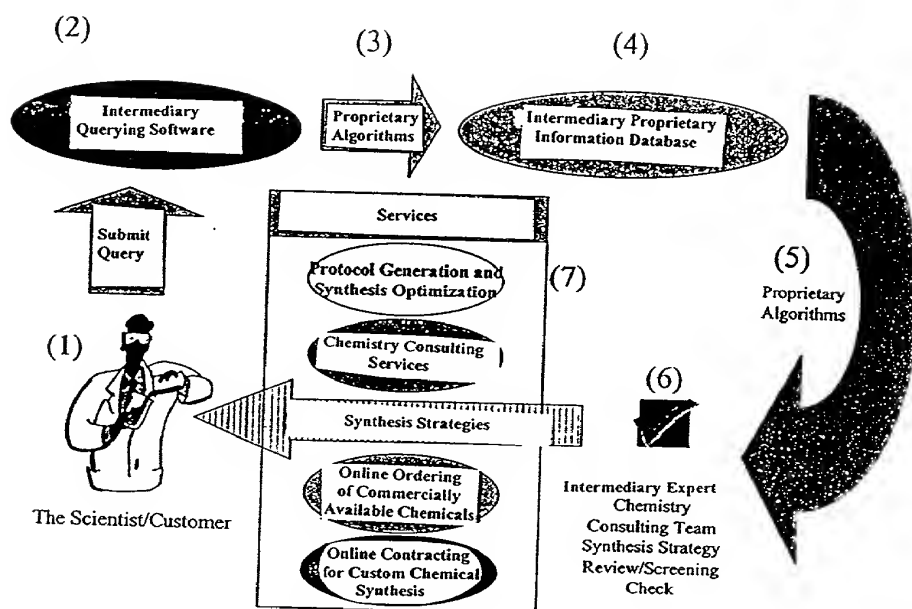
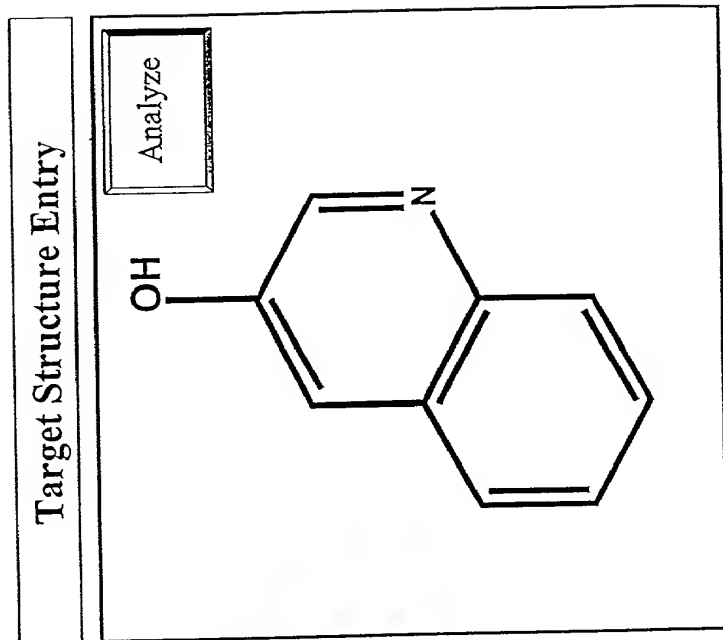


Fig. 6



400

Fig. 7



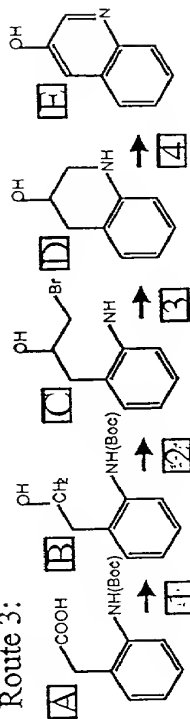
Synthesis Strategies

Routes	Yield %	# of steps to ACD	# of Purification Steps Required	Cost Per mg of product	Add Synthetic Routes to Project
Route 1	86	6	4	\$2,000	<input checked="" type="checkbox"/>
Route 2	75	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Route 3	71	4	3	\$6,434	<input checked="" type="checkbox"/>
Route 4	63	5	2	\$200	<input checked="" type="checkbox"/>
Route 5	44	10	8	\$22,050	<input type="checkbox"/>
Route 6	31	7	6	\$15,427	<input type="checkbox"/>
Route 7	24	5	5	\$155	<input type="checkbox"/>
Route 8	20	6	4	\$4,450	<input type="checkbox"/>
Route 9	17	6	5	\$344	<input type="checkbox"/>
Route 10	9	N/A	N/A	N/A	<input type="checkbox"/>
Route 11	4	6	6	\$36,000	<input type="checkbox"/>

Fig. 8

420

Route 3:



Synthesis Reaction Optimization

Optimize the Reaction Time and Temperature for Step [3]
Temperature 80° C
Time 8 Hrs

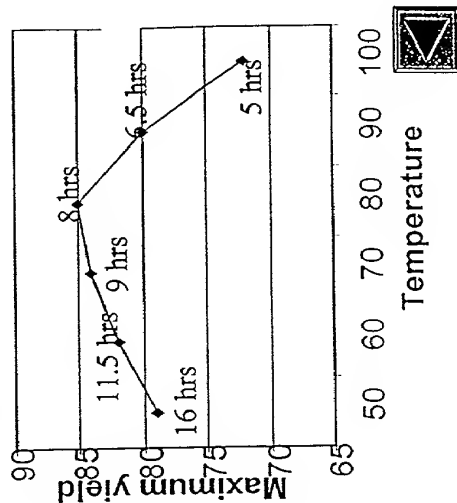
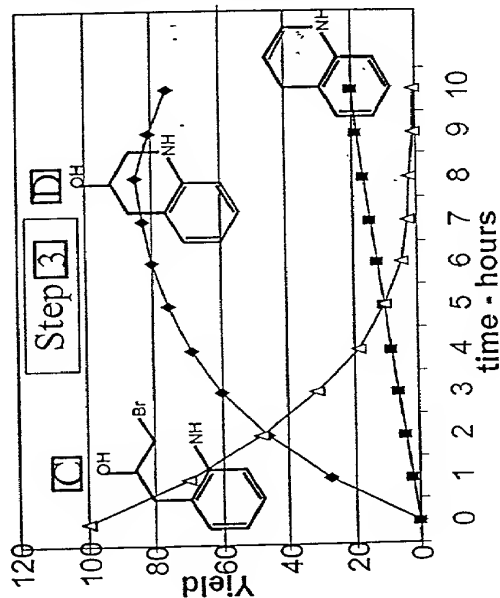
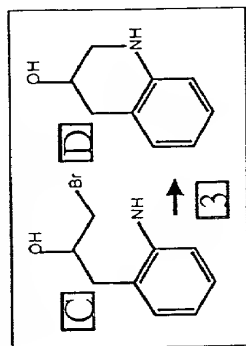
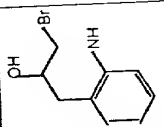




Fig. 11

480

Request Bids

Target	Level of Confidentiality Required	Desired Quantity	Cost	Level of Purity	Stereo-chemical Requirements	Suggested Strategies	Request Bids
 	Ultra High Medium Low None	10 g	< \$40,000	~99% ~95% ~90%	None		<div>Request Preliminary Bids</div> <div>Request Binding Bids</div>

500

Fig. 12